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IN THE CLAIMS

- Q1
1. (Previously amended): An electrical coupler, comprising:
 - an electrically conductive inner connector element having opposing ends;
 - an upper end connector and a lower end connector; each end connector respectively coupled to one of said opposing ends of said inner connector element;
 - a thermally conductive flange circumscribing said inner connector; and
 - an electrically non-conductive outer connector element disposed over said electrically conductive inner connector and said thermally conductive flange.
 2. (Original): The electrical coupler of claim 1 wherein said opposing ends of said inner connector element each comprise a bore, in which the upper and lower end connectors are disposed.
 3. (Original): The electrical coupler of claim 1 wherein said thermally conductive flange is brazed to said inner connector.
 4. (Original): The electrical coupler of claim 1 wherein said thermally conductive flange is fabricated from a ceramic material.
 5. (Original): The electrical coupler of claim 1 wherein said thermally conductive flange is fabricated from the group comprising aluminum nitride and beryllium oxide.
 6. (Original): The electrical coupler of claim 1 wherein said inner connector element is fabricated from beryllium copper.
 7. (Original): The electrical coupler of claim 2 wherein said upper and lower end connectors are fabricated from beryllium copper.

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8. (Original): The electrical coupler of claim 7 said upper and lower end connectors are plated with at least one electrical conductor.

9. (Original): The electrical coupler of claim 8 wherein said upper and lower end connectors are plated with successive layers of nickel and gold.

10. (Original): The electrical coupler of claim 2 wherein said upper and lower end connectors each comprise a female banana connector disposed therein said bore.

11. (Original): The electrical coupler of claim 1 further comprising an upper male connector removably inserted into said upper end connector.

12. (Original): The electrical coupler of claim 11 wherein said upper male connector is fabricated from a thermally non-conductive material.

13. (Original): The electrical coupler of claim 12 wherein said upper male end connector is fabricated from stainless steel.

14. (Original): The electrical coupler of claim 12 wherein said upper male end connector is plated with at least one electrical conductor.

15. (Original): The electrical coupler of claim 14 wherein said upper male end connector is plated with successive layers of nickel, copper, nickel, gold.

16. (Original): The electrical coupler of claim 1 further comprising a lower male connector removably inserted into said lower end connector.

17. (Original): The electrical coupler of claim 16 wherein said lower male connector is fabricated from beryllium copper.

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18. (Original): The electrical coupler of claim 16 wherein said lower male connector is plated with at least one electrical conductor.
19. (Original): The electrical coupler of claim 18 wherein said lower male connector is plated with successive layers of nickel and gold.
20. (Original): The electrical coupler of claim 1 wherein said outer connector element is fabricated from silicone.
21. (Original): The electrical coupler of claim 1 wherein a portion of said thermally conductive flange circumscribing said inner connector is exposed from said outer connector element to transfer heat to a surrounding environment.
- 22-44. (Withdrawn)
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